

## MEMORANDUM

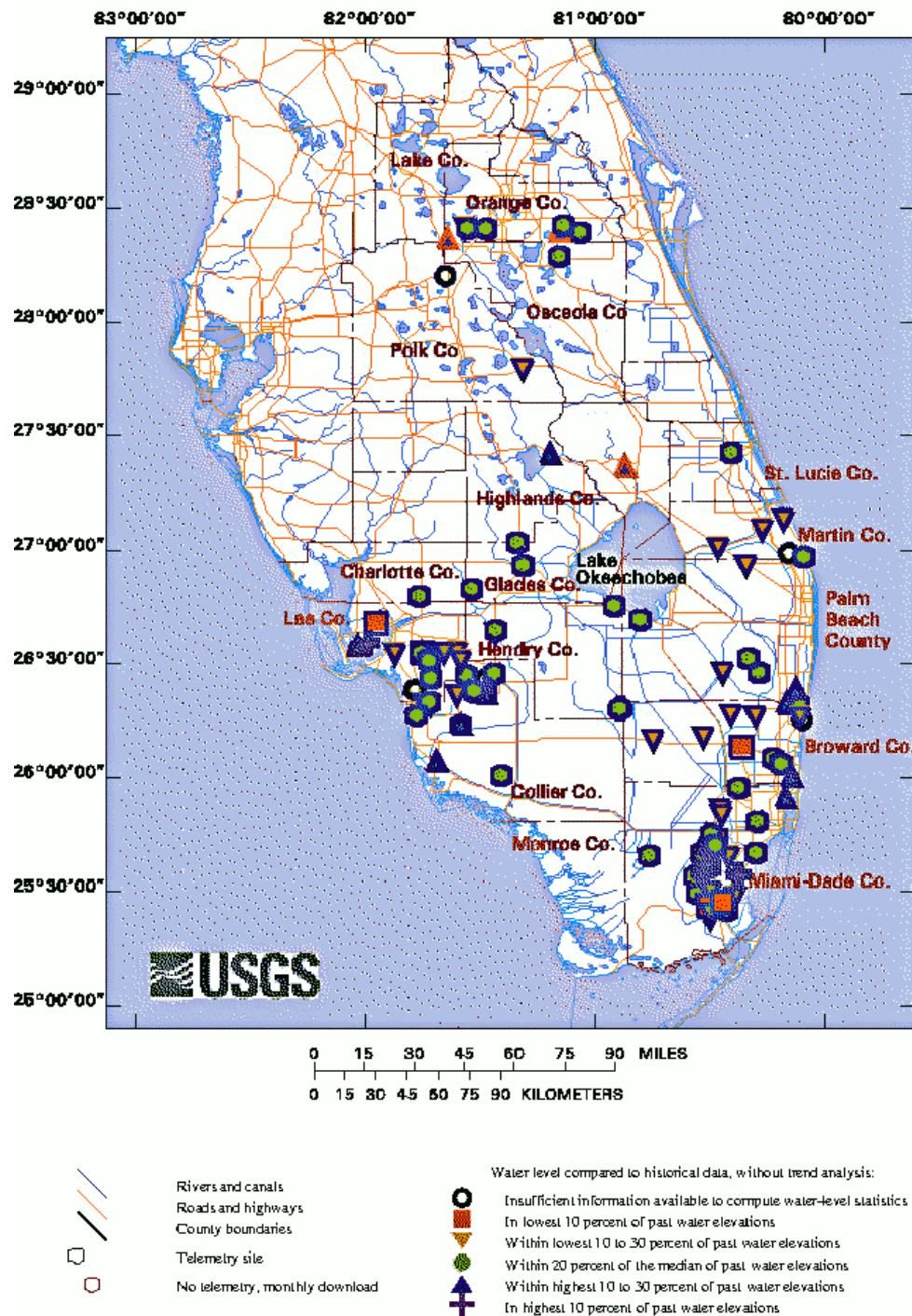
**TO:** John Mitnik, Bureau Chief, Engineering and Construction  
**THROUGH:** Dean Powell, Bureau Chief, Water Supply  
**FROM:** SFWMD Staff Water Supply Advisory Team  
**DATE:** November 17<sup>th</sup>, 2015  
**SUBJECT:** Water Supply Report

### **District-wide Conditions**

Groundwater levels showed mixed trends throughout most of the District over the last week. The majority of United States Geological Survey (USGS) real-time wells in the Kissimmee Basin (KB) within the District boundaries were in the median percentile range for this time of year. Most surface and groundwater stations in the KB recorded decreases in water levels during the last seven days. Stages in the Upper East Coast (UEC) canals C-23, C-24, and C-25 were at 22.90, 21.01, and 22.16 feet, respectively, well above the 14 feet NGVD agricultural cutoff level. Over half of the UEC surficial aquifer wells were in the lower 10<sup>th</sup> to 30<sup>th</sup> percentile range. The remainder are at median levels or above for this time of year. Surface and groundwater trends of the stations in the Biscayne aquifer were mixed over the last week. About one third of the USGS Biscayne aquifer monitor wells in the Biscayne aquifer are in the lower 10<sup>th</sup> to 30<sup>th</sup> percentile range or lower for this time of year. Low water levels persist in Everglades National Park (ENP).

In the Lower West Coast (LWC), groundwater levels decreased in all of the monitoring stations over the last seven days. The majority of the wells in the surficial and Lower Tamiami aquifers are at median levels for this time of year. About 60% of the Sandstone aquifer wells are at median levels or higher for this time of year, with 40% in the lower 10<sup>th</sup> to 30<sup>th</sup> percentile range. Half of the Mid-Hawthorn aquifer wells are at median levels or higher for this time of year, with the remainder split between the lower 10<sup>th</sup> to 30<sup>th</sup> percentile and lowest 10<sup>th</sup> percentile ranges. **Figure 1** is a USGS map showing conditions on November 17<sup>th</sup>, 2015, from a 7-day running average of daily recorded water levels compared to the statistical distribution of daily water levels for the period of record for selected sites in southern Florida.

PROVISIONAL DRAFT -- Subject to Revision



**Water levels at selected sites in South Florida,  
Based on PROVISIONAL DATA, as of November 16, 2015.**

**Figure 1. Current Water-level Conditions in South Florida (source: USGS,  
[http://www.sflorida.er.usgs.gov/ddn\\_data/index\\_ndt.html](http://www.sflorida.er.usgs.gov/ddn_data/index_ndt.html))**

### **Water Supply Technical Input to LORS2008**

The Palmer Index for Lake Okeechobee (LOK) Tributary Conditions is -0.80, classified as “normal,” and is in the “low” risk category. The LOK stage for the next two months is projected to be in the Base Flow Sub-Band, and the risk to water supply is categorized as “moderate.” The Climate Prediction Center’s (CPC) Precipitation Outlook is projected as “above normal” for one month and “above normal” for three months, leaving both the one month outlook and the three month outlook in the “low” risk category. The LOK Seasonal Net Inflow Forecast is in the “normal to extremely wet” range, with “low” risk to water supply. The Multi-Seasonal Net Inflow Forecast is projected as “wet,” with “low” risk to water supply. The stages in the Water Conservation Areas are all above line 1 and are in the “low” risk category. Groundwater levels in LEC Service Areas are in the “low” risk category. The Year-Round Irrigation Rule is in effect for the LEC Service Areas. **Figure 2** summarizes the water supply risk indicators.

## **LORS2008 Implementation on 11/16/2015 (ENSO Neutral Condition):**

### **Water Supply Department Technical Input**

#### **Water Supply Outlook:**

District wide, Raindar rainfall 0.51 inches for the week ending 11/16/2015. Lake stage on 11/16/2015 is 14.32 ft, down 0.12 ft from last week.

The updated November 2015 SFWMM Dynamic Position Analysis [percentile graph](#) and [tracking chart](#) for Lake Okeechobee show that the lake stage is in the base flow Operational Sub-Band.

The LORS2008 tributary [indices](#) are classified as **Normal**. The PDSI indicates normal condition and the LONIN is Dry. The classification is based on the wetter of the two.

#### **Water Supply Risk Evaluation**

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Base Flow Sub-Band	M
	Palmer Index for LOK Tributary Conditions	-0.80 (Normal)	L
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Forecast	1.59 ft (Normal to Extremely Wet)	L
	AMO warm/El Nino		
	LOK Multi-Seasonal Net Inflow Forecast	3.99 ft (Wet)	L
	AMO warm/El Nino		
WCAs	WCA 1: Site 1-7, 1-8T, & 1-9	(16.84 ft)	L
	WCA 2A: Site 2-17 HW	(12.46 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	(10.10 ft)	L
LEC	Service Area 1	Year-Round Irrigation Rule in effect	L
	Service Area 2	Year-Round Irrigation Rule in effect	L
	Service Area 3	Year-Round Irrigation Rule in effect	L

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow forecasts use slightly different classification intervals than those used by the 2008-LORS for classifying the tributary hydrologic condition (THC).

**Figure 2. Water Supply Risk Indicators**